

What is claimed is:

- 1        1. A method for compensating for digital impairments in a PCM communication
- 2        system, said method comprising the steps of:
- 3               receiving, in an analog modem, a sequence of received signal points associated
- 4        with a digital impairment learning (DIL) sequence transmitted from a digital modem;
- 5               estimated sample magnitudes based on said received signal points;
- 6               building a constellation in accordance with said estimated sample magnitudes; and
- 7               transmitting said constellation to a digital modem.